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2013-05-02

# 2013 Undergraduate Research Symposium Program

Center For Creative And Research Activities

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**16<sup>TH</sup> ANNUAL  
UNDERGRADUATE  
RESEARCH SYMPOSIUM  
MAY 2, 2013**

**16<sup>th</sup> Annual  
Undergraduate Research Symposium  
May 2, 2013**

**PROGRAM**

8 am	Continental Breakfast Setup for posters in Lower Commons and Veteran's Hall	Upper Dining Commons
8:45 am	Opening Remarks Dr. Kristin Esterberg provost and academic vice president	Upper Dining Commons
9 am	Poster Session 9 – 9:30 am 9:30 – 10:15 am 10:15 – 11 am 11 – 11:30 am	Lower Commons and Veterans Hall All posters Even numbered posters only Odd numbered posters only All posters
9:15 am	Paper Sessions (see listings)	
11:30 am	Closing Remarks Lunch and Presentation of Certificates	Dining Commons, second floor

**Acknowledgments**

We thank Dr. Kristin Esterberg, provost and academic vice president, and her office for sponsorship and financial support. Much of the research presented today was facilitated by the Institutional Review Board (IRB), its chair, Allan Shwedel, and IRB Administrator, Megan Williams. We are grateful to Amie Marks Goodwin for her help, and we thank the staffs of the dining commons, copy center, media services, creative services, campus center and facilities for all that they do to make this event possible.

**Program Committee**

Terry Lyons	Psychology
Christine MacTaylor	Chemistry and Physics
Krishna Mallick	Philosophy
Deb Mason-McCaffrey	Chemistry and Physics
Ben Miller	Psychology
Jennifer Robinson	Criminal Justice
Zaiyong Tang	Marketing and Decision Sciences

## PAPERS

<b>Session I</b>	<b>MH238</b>	<b>Geertje Wiersma, moderator</b>
Lucinda Damon-Bach, English, sponsor		
<b>Colleen Kelly</b>		<i>The psychology of fear in 19th and 20th century horror literature</i>
Greg Foudray, Marketing and Decision Science, sponsor		
<b>Lorjan Karagjozi, Angelica Noble, Chelsey Paone, Broderick Preston</b>		<i>Operations analysis of Plum Island Coffee Roasters II</i>
Alex K. Kyrou, History, sponsor		
<b>Lily Mysona</b>		<i>The evolution of evil: German cinematic portrayals of the Nazis</i>
Vanessa Ramos, English, sponsor		
<b>Molly Pinto Madigan</b>		<i>How the night tastes: Fairy tales retold</i>
<b>Melissa Mui</b>		<i>Born in the shadows</i>
Geertje Else Wiersma, Sociology, sponsor		
<b>Hannah Colbert</b>		<i>The quest for Immortality: The Hunger Games and Ernest Becker</i>
<b>Session II</b>	<b>Presidential Room</b>	<b>Dane Morrison, moderator</b>
Dane Morrison, History, sponsor		
<b>Amy Braid</b>		<i>Elizabeth I: The Puritans' neutral queen</i>
<b>Laura Cleary</b>		<i>Reverend Samuel Skelton: A short biography</i>
<b>Priscilla A. Herrington</b>		<i>Informed imagination: Using historical fiction to better understand New England Puritanism</i>
<b>Session III</b>	<b>MH241</b>	<b>Andrew Darien, moderator</b>
Annette Chapman-Adisho, History, sponsor		
<b>Katie Reilly</b>		<i>The Women of Irish nationalism: Citizens and mothers</i>
<b>Beth Crowley</b>		<i>Becoming the Witch City: The rise of tourism in Salem</i>
Andrew Darien, History, sponsor		
<b>Alvaro Duarte</b>		<i>German immigration in Brazil</i>
<b>Jessica Ziegelbaum</b>		<i>Native American removal</i>
<b>Michael Curley</b>		<i>Thomas Jefferson and the Enlightenment</i>

<b>Session IV</b>	<b>MLK Room</b>	<b>Caitlin Corbett, moderator</b>
Jennifer Jackman, Political Science, sponsor		
<b>Hannah Colbert</b>		<i>Who has the right to protection?: An advocacy coalition framework analysis of the 2013 Violence Against Women Act reauthorization</i>
<b>Cynthia Robinson</b>		<i>Want to kill yourself? The Catholic Church won't let you: An examination of a policy monopoly and its influence on the Massachusetts 2012 Ballot Question 2</i>
Michael Jaros, English, sponsor		
<b>Via Perkins</b>		<i>Burgeoning biraciality: What it means to be a young mulatto in America today</i>
Krishna Mallick, Philosophy, sponsor		
<b>Elizabeth O'Leary</b>		<i>Women's health: Arguing equality world wide</i>
Yvonne Vissing, Sociology, sponsor		
<b>Tiffany Lever</b>		<i>Suicide among youth in Massachusetts</i>
Jamie J. Wilson, History, sponsor		
<b>Kenneth Sterrett</b>		<i>Freedom House and its struggles to rectify housing discrepancies in Upper Roxbury</i>
Caitlin Corbett, Sport and Movement Science, sponsor		
<b>Alicia Knight</b>		<i>Naked dancing: Women's bodies in contemporary dance and entertainment dance</i>
<b>Session V</b>	<b>MH 240</b>	<b>Karen Goodno-McGuire, moderator</b>
Karen Goodno-McGuire, sponsor		
<b>Speakers' names are included in the addendum</b>		<i>Learning from the Past: Historical Best Friends in World History</i>

## POSTERS

Biology / Joseph K. Buttner

- 19 **Nadine Budrow**  
**Tom Pedulla** Liberian aquaculture project: Need through opportunity toward Reality

Biology / Larry Lewis

- 24 **Katherine Plotner**  
**Shelby Spooner** Evidence for differentiation in *Ectocarpus*
- 91 **Svetlana Allakhverdova**  
**Victoria Gillispie** The effects of direct current on *Ocimum basilium* (basil)

Biology / Sheila Marie Schreiner

- 53 **Makala Crowley**  
**Amanda Lee** Fecal impact on Forest River Park's shore line
- 71 **Jordan Breau** MRSA: The superbug
- 101 **Jaclyn White** Effects of propolis on different bacterial strains

Biology / Amy Sprenkle

- 63 **Leo Geggis**  
**Arianna Mastropolo**  
**Kim Clapp** Ulcerative colitis
- 77 **Christine Vo** Behçet's disease
- 92 **Anthony Canada** Toxic shock syndrome
- 95 **Yanitza Espinal**  
**Ivona Buckley**  
**Svetlana Allakhverdova** Rheumatic fever
- 100 **Jaclyn White**  
**Chimene Martiale**  
**Mbague Nandjou**  
**Shirley Louie** Type 1 diabetes

Biology / Tracy Ware

- 11 **Eric J. Silva** Using a *Toxoplasma gondii* mutant to study the connections between infection, obesity, and reproductive hormones in mice

Biology / Alan M. Young

- 82 **Timothy M. Kasprzyk** Ecological health assessment of Salem Sound via bird census data

Chemistry and Physics / Christine MacTaylor

- 6 **David J. Anja** Endophytes in rhododendron: The search for a new anti-cancer drug
- 8 **John Serodio** Lead monitoring in the Forest River salt marsh
- 20 **Samuel Avoine** Is native bamboo a potential medicine
- 25 **Jon Whitney** Which vitamin gives the most niacin and vitamin C for your dollar
- 27 **Junior Villa** Determination of iron in multi-vitamins
- 37 **Kimberly Clapp** Wheat grass endophytes and potential medical properties
- 38 **Vitalis Achalonu** Bittersweet: What endophytes make it so strong?
- 45 **Krystal Gmyrek** Quantification of caffeine in coffee
- 47 **Daniel M. Wakaba** Endophytes from Forest River salt marsh: A potential medicine?
- 48 **Daniel Belschner** Measuring caffeine in energy drinks
- 55 **Brittany Herland** English ivy and its endophyte metabolites
- 75 **Trisha Asselin** Survey of water quality throughout SSU
- 90 **Kyle Leonard** Quantification of zinc in various brands of multi-vitamins
- 96 **Isaiah Ruben Gomez** Testing medical properties of a local plant
- 98 **Chimene Martiale**  
**Mbague Nandjou** Can aloe help more than burns?
- 99 **Christine Vo** Green methods of extraction of chloramphenicol in shrimp
- 103 **Daniel Donnelly** Biofuel from algae: Comparison of various extraction methods

Chemistry and Physics / Mustafa Yatin

- 2 **Travis B. Ellyson**  
**Jon Whitney**  
**Isaiah Ruben Gomez** Quaternary ammoniums: Synthesis and bioactivity

66	<b>Tianna E. DaSilva</b>	Homemade microbial fuel cell
93	<b>Anthony Canada</b>	Radiation exposure in the aftermath of Fukushima disaster and its long term effects
94	<b>Yanitza Stephanie Espinal</b>	Facts about radon gas
	<b>Christine Vo</b>	
97	<b>Shirley Louie</b>	Imaging studies in primary models of addiction
Computer Science / Beifang Yi		
10	<b>Samuel Kato</b>	SaGrading, an online Java programming grading system
	<b>Rafaele Oliveira</b>	
33	<b>Marcelo Santos</b>	Color choices of names
117	<b>Erin Griffith</b>	The ultimate equation sheet
Economics / Dorothy R. Siden		
1	<b>Dianna Concepcion</b>	The double edged sword of Hezbollah's finances: Reconciling the legitimate and illegitimate financial practices of a terrorist organization
3	<b>Estelle Granlund</b>	Recovery in the labor market: Lessons learned from Sweden's financial crisis twenty years ago
9	<b>Brian Benson</b>	The effect of class size on student achievement
12	<b>Lai Luo</b>	Losses and benefits of movie piracy in China
13	<b>Alexander Murray</b>	Price structure of abundant (post scarcity) goods
29	<b>Wei Huang</b>	Air pollution, a negative externality caused by trade liberalization in China
40	<b>Sit Mab</b>	Are domestic box office revenues still important for the American film industry?
41	<b>Whitney Gosnell</b>	Casinos and urban environments: Effects on property values and default rates
42	<b>Caleb Mitchell</b>	The impact of foreign investors (mainly Middle-Eastern) on European soccer teams
50	<b>Zhou Chen</b>	How does A "fair" enforcement of immigration rules affect public safety and the economy?
51	<b>Josh Morash</b>	Is wind power more efficient than traditional methods of energy production
52	<b>Jefferson Saky</b>	Impact of corruption on the economy of Cambodia
54	<b>Edmund Hammond</b>	Gone with the guns: Is a mandate for liability insurance an effective legal/economic deterrent to gun violence?

58	<b>Ralph DiVirgilio</b>	The Libor and economic misgivings: How certain banks have manipulated the London Offered Rate, disregarded integrity and adversely affected the world economy
60	<b>Kim Toussaint</b>	Effect of the education of women on economic development
62	<b>Benjamin Skelic</b>	What is the economic impact of states declining Medicaid coverage under the PPACA - Patient Protection and Affordable Care Act
76	<b>Anthony Telemaque</b>	Costs and benefits of marijuana legalization in Massachusetts
78	<b>Limei Chen</b>	Savings from the abolition of the death penalty
88	<b>Jesse Mader</b>	The economic impact of higher education spending in local economies in Massachusetts
Education / Allan Shwedel		
121	<b>Evelyn Cardoso</b>	Elementary education in post-conflict settings
124	<b>Lacey J. Michelsohn</b>	Early childhood education and special needs in Liberian education
Geography / Stephen Young		
79	<b>Matthew Catalini</b>	Sea surface temperature change in northeast North America
	<b>Michael DeMars</b>	
	<b>Jeffrey Ortiz</b>	
80	<b>Amanda Fronduto</b>	Snow cover change in northeast North America
	<b>Matthew Peetz</b>	
	<b>Jakub Sitek</b>	
81	<b>Mandiang Fatou</b>	Land surface temperature change in northeast North America
	<b>Nicholas Otto</b>	
	<b>Lindsay Rogers</b>	
Geography / Lorri Krebs		
105	<b>Keane Terenzoni</b>	Downtown Peabody
106	<b>Edmar Goncalves</b>	Keystone XL pipeline
107	<b>Kaitlin Hurley</b>	The current state of geography as a discipline in MA
108	<b>Matthew Lee</b>	Disney's recreational programs
109	<b>Brianna Nelson</b>	The future of cruise line ports
110	<b>Seth Perry</b>	Essex County wind power: Past, present and future

111	<b>Vanessa Mole</b>	Why are there more female teachers than male?
112	<b>Amanda Fronduto</b>	The effects of climate change on tourism in Saint Maarten
113	<b>Chelsea Fish</b>	Women in India's path to sustainable development
114	<b>Zachary Nutter</b>	An examination of the factors influencing change in neighborhoods: A case study of the Point neighborhood, Salem, MA
115	<b>Fatou Mandiang</b>	Juvenile delinquency and ethnicity
116	<b>Quichen Zhang</b>	Air pollution in Lanzhou, China: A future perspective
117	<b>Matthew Peetz</b>	Tax rates effect and economic development
119	<b>Nicholas Lampson</b>	Decisions in the airline industry

Geological Sciences / Brad Hubeny

14	<b>Alexandra Stamison</b>	Potential of sedimentary sulfur variability in a subarctic back-barrier freshwater lake to reveal past marine influences
22	<b>Bridgette J. Gillespie</b>	Causes of high turbidity events in Salem harbor, MA, constrained by continuous water quality monitoring
28	<b>Phoebe Mae Azucena</b>	Climate oscillation patterns determined through stable isotope variability in lacustrine sediments in Thidriksvallavatn, Iceland
83	<b>Jennifer Ann Palermo</b>	Utilizing organic matter to interpret climate variability in Lake Vatnsdalsvatn, Iceland

Geological Sciences / Peter Sablock

32	<b>Kyle Webster</b>	An integrated geophysical survey of the Old Parish Cemetery, York, ME
46	<b>Matthew Pardee</b>	A self potential geophysical survey of a retaining embankment, Goose Cove Reservoir, Gloucester, MA
64	<b>4 Nichols</b>	A geophysical survey of a 17th century homestead: South Berwick, ME
73	<b>Samuel Couture</b>	Locating the burial sites of the victims of the Salem witchcraft trials of 1692
87	<b>Steven McCaw</b>	A ground penetrating radar analysis of the Phips archaeological site in Woolwich, ME

Geological Sciences / Jeanette M. Sablock

118	<b>Carling Audette</b>	Geochemical analysis of soils from a 17th century Maine structure – Shippon or barn?
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Interdisciplinary Studies./Greg Carroll

120	<b>Jacqueline M. Bocchino</b>	Food security and peace in Liberia
123	<b>Elizabeth A. Leisey</b>	The role of NGOs in post-conflict reconstruction
125	<b>Sarah Lopez</b>	The use of GIS in conflict prevention
126	<b>Andrea Neuenfeld</b>	Women in post-conflict Liberia
	<b>Rosviny P. Felix</b>	
	<b>Suelynn W. Ngare</b>	
127	<b>Katherine E. Anthony</b>	Impact of poverty on education in Liberia
129	<b>Wintana Wolday</b>	Honor killings in North Africa
130	<b>Janice M. Oxford</b>	José Julián Martí Pérez and Cuba

Nursing / Victoria J. Morrison

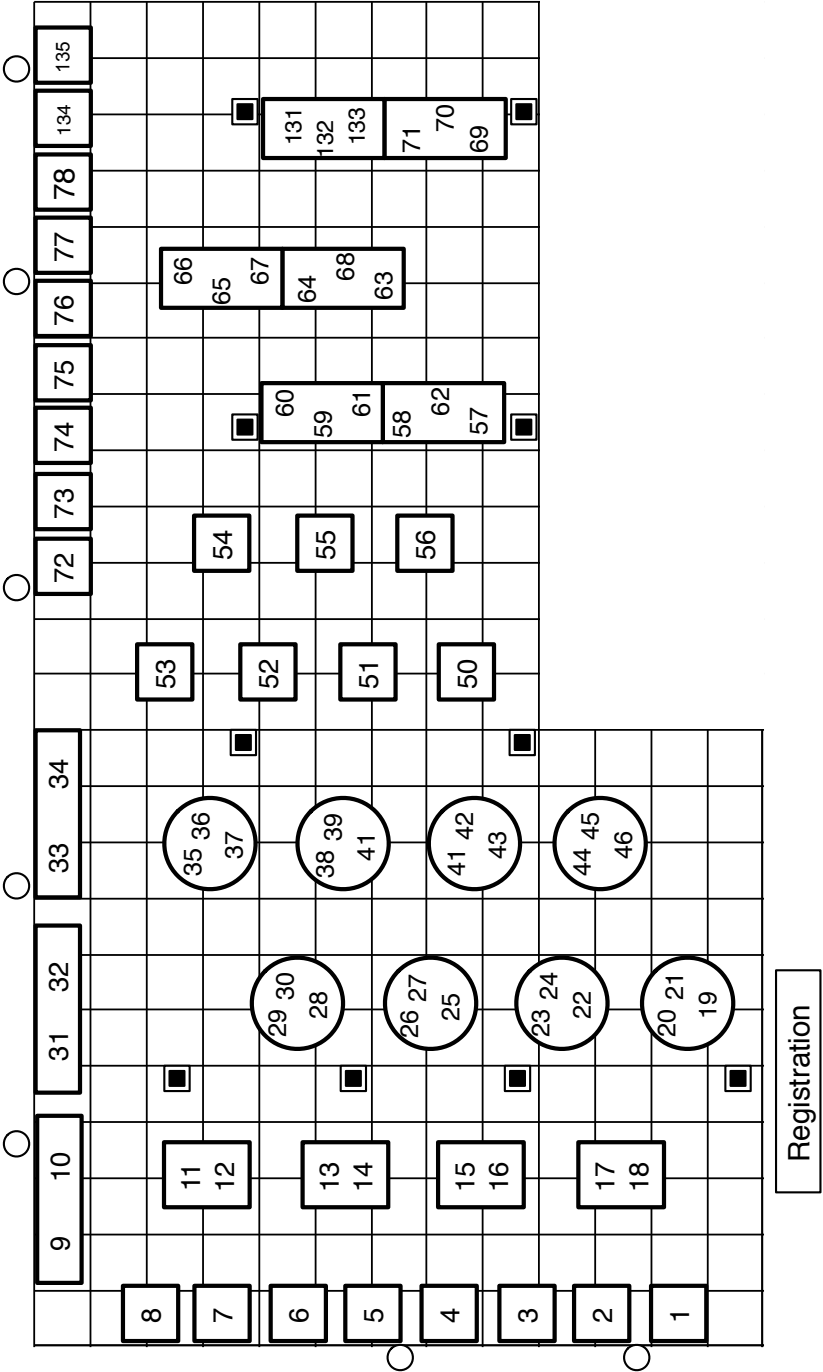
4	<b>Laura Daggett</b>	Therapeutic hypothermia in cardiac arrest: Exploring the technique and nursing care
15	<b>Alexander I. Macleod</b>	Investigation of radiation exposure to healthcare workers: An assessment of efforts to maintain safety and prevent harmful effects
31	<b>Harry R. Paine III</b>	The student nurse's guide to music therapy: A review of the effectiveness of the administration of music for pain management
35	<b>Jennifer Anglin</b>	Hospice care for end of life Alzheimer's clients
49	<b>Tania Maria Gelsomini</b>	The impact of nursing students' learning styles on grade achievement
57	<b>Monica Bento</b>	Accidental burns in children ages 3-6: Treatment and nursing implications
59	<b>Kayla M. Zanni</b>	Substance abuse among male collegiate athletes: The problem and possible solutions
68	<b>Stephanie Christopher</b>	The post-operative nursing care of the patient with an abdominal aortic aneurysm surgical repair
86	<b>Shannon R. Finlay</b>	Nurses' perception of protocol effectiveness: Pressure ulcers—a qualitative study
122	<b>Steven Colas</b>	International comparison of nursing education: The case of Liberia and the USA

128	<b>Kristin L. Ryan</b>	Healthcare in post-conflict Liberia
Philosophy / Krishna Mallick		
84	<b>Ashley Bean</b>	One child policy and overpopulation in China
Philosophy / Michael Mulnix		
30	<b>Samantha Tracey</b>	Looking past the surface: A philosophical study in happiness
Political Science / Vanessa Ruget		
16	<b>Matthew Alexander Smith</b>	Girls' struggle for education in Afghanistan
21	<b>Alma Iris Calderon</b>	Son preference in India
36	<b>Nicolas Brun-Cottan</b>	Violence against Dalit women in India
39	<b>Alexandra Marie Celli</b>	Acid attack in South Asia
43	<b>Gladys Sorto</b>	Women shelters in Afghanistan
61	<b>Yarrow F. Unger</b>	Acid attacks on women in India
69	<b>Kevin Andrew Sousa</b>	Labor unions and female employment in India and Bangladesh
70	<b>Christopher Gerard Johanson</b>	Female prime ministers in South Asia: between patriarchy and empowerment
74	<b>Kristina Marie DeRosa</b>	Domestic violence in Bangladesh: How the government and NGOs are responding
85	<b>Nancy Estime</b>	Child soldiers in Sri Lanka
89	<b>Cheyenne Marie Gales</b>	Human trafficking from Nepal to India: the role of corruption
102	<b>Sharon Zajac</b>	Micro-credit, women and poverty in Bangladesh
17	<b>Debbie Lynn Stansfield</b>	Violence against women in India: The legislative response
Psychology / David Gow		
67	<b>Cristen Sullivan</b>	Understanding the importance of semantic context in word recognition
Psychology / Ben Miller		
34	<b>Amanda Bright</b> <b>Holly Rosendahl</b>	Patterns of victim selection among convicted American serial killers
Psychology / Patrice M. Miller		
7	<b>Paige Leger, Sophie Ford</b>	Life factors relating to college students' stress levels

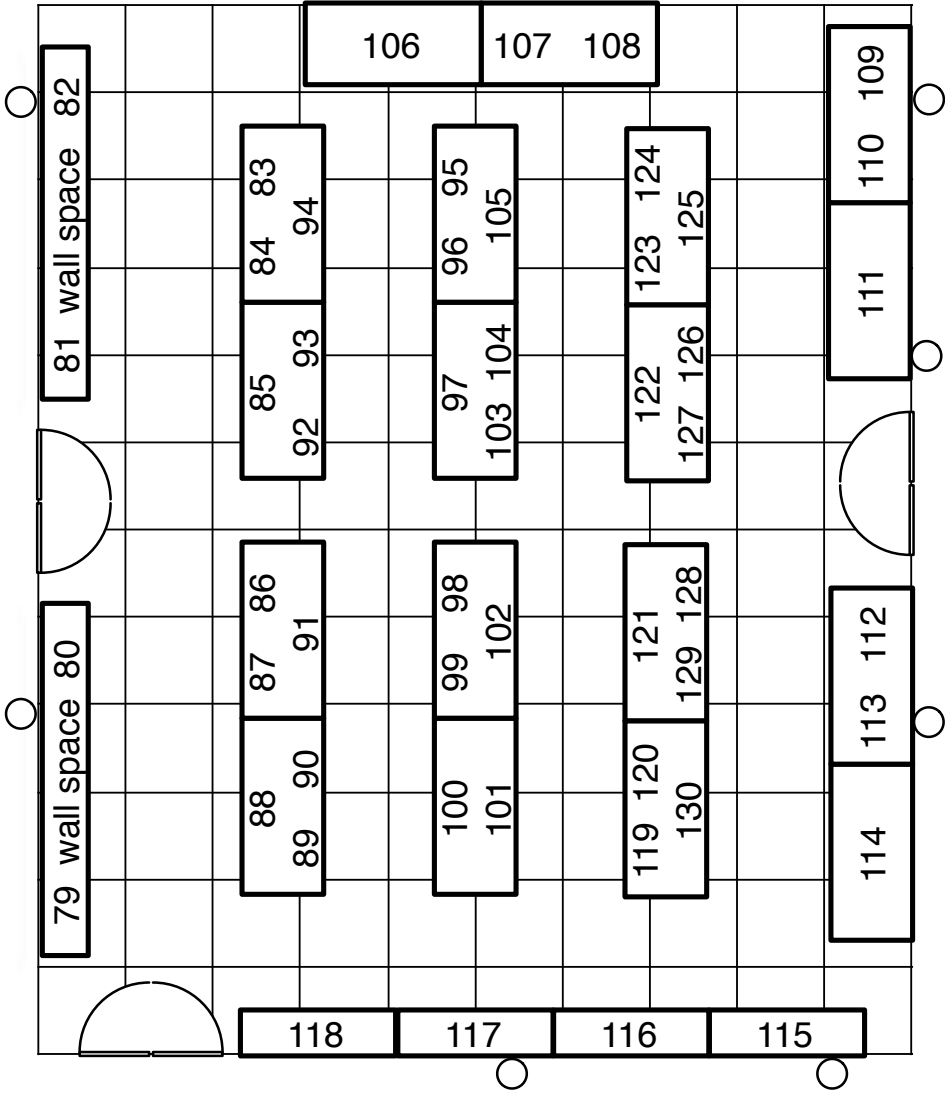
18	<b>Lillian Blankenship</b> <b>Sally Reum</b>	Recreation and wellness: Positive links to motivation in college students?
44	<b>Kaitlyn Aronian</b>	Interpreting social interactions in a public setting
56	<b>Samantha Foley</b>	The relationship of facial expressions to the tendency to approach
Sociology / Geertje Else Wiersma		
26	<b>Bianca Gallo</b>	The inclusive classroom and student behavior
Sport and Movement Science / Jennifer El-Sherif		
65	<b>Hillary Glencross</b>	Students perceptions of physical education/ wellness programs
Sport and Movement Science / Ann Marie Gallo		
23	<b>Monique Maggiore</b>	NASPE's time recommendation for physical education: How does Massachusetts rate?



Lower Commons



Veteran's Hall



Stairwell to  
ECC Lobby

## POSTER INDEX

Achalonu, V.	38	Ford, S.	7	Nutter, Z.	114
Allakhverdova, S.	91	Fronduto, A.	80	Oliveira, R.	10
Allakhverdova, S.	95	Fronduto, A.	112	Ortiz, J.	79
Anglin, J.	35	Gales, C.	89	Otto, N.	81
Anja, D.	6	Gallo, B.	26	Oxford, J.	130
Anthony, K.	127	Geggis, L.	63	Paine III, H.	31
Aronian, K.	44	Gelsomini, T.	49	Palermo, J.	83
Asselin, T.	75	Gillespie, B.	22	Pardee, M.	46
Audette, C.	118	Gillispie, V.	91	Pedulla, T.	19
Avoine, S.	20	Glencross, H.	65	Peetz, M.	80
Azucena, P.	28	Gmyrek, K.	45	Peetz, M.	104
Bean, A.	84	Gomez, I.	96	Perry, S.	110
Belschner, D.	48	Gomez, I.	2	Plotner, K.	24
Benson, B.	9	Goncalves, E.	106	Reilly, J.	5
Bento, M.	57	Gosnell, W.	41	Reum, S.	18
Blankenship, L.	18	Granlund, E.	3	Rogers, L.	81
Bocchino, J.	120	Griffith, E.	117	Rosendahl, H.	34
Breau, J.	71	Hammond, E.	54	Ryan, K.	128
Bright, A.	34	Herland, B.	55	Saky, J.	52
Brun-Cottan, N.	36	Huang, W.	29	Santos, M.	33
Buckley, I.	95	Hurley, K.	107	Serodio, J.	8
Budrow, N.	19	Johanson, C.	70	Silva, E.	11
Calderon, A.	21	Kasprzyk, T.	82	Sitek, J.	80
Canada, A.	92	Kato, S.	10	Skelic, B.	62
Canada, A.	93	Lampson, N.	119	Smith, M.	16
Cardoso, E.	121	Lee, A.	53	Sorto, G.	43
Catalini, M.	79	Lee, M.	108	Sousa, K.	69
Celli, A.	39	Leger, P.	7	Spooner, S.	24
Chen, L.	78	Leisey, E.	123	Stamison, A.	14
Chen, Z.	50	Leonard, K.	90	Stansfield, D.	17
Christopher, S.	68	Lopez, S.	125	Sullivan, C.	67
Clapp, K.	37	Louie, S.	100	Telemaque, A.	76
Clapp, K.	63	Louie, S.	97	Terenzoni, K.	105
Colas, S.	122	Luo, L.	12	Toussaint, K.	60
Concepcion, D.	1	Mab, S.	40	Tracey, S.	30
Couture, S.	73	Macleod, A.	15	Unger, Y.	61
Crowley, M.	53	Mader, J.	88	Villa, J.	27
Daggett, L.	4	Maggiore, M.	23	Vo, C.	99
DaSilva, T.	66	Mandiang, F.	115	Vo, C.	77
DeMars, M.	79	Mastropolo, A.	63	Vo, C.	94
DeRosa, K.	74	Mbague Nandjou, C.	98	Wakaba, D.	47
DiVirgilio, R.	58	Mbague Nandjou, C.	100	Webster, K.	32
Donnelly, D.	103	McCaw, S.	87	White, J.	100
Ellyson, T.	2	Michelsohn, L.	124	White, J.	101
Espinal, Y.	95	Mitchell, C.	42	Whitney, J.	25
Espinal, Y.	94	Mole, V.	111	Whitney, J.	2
Estime, N.	85	Morash, J.	51	Wolday, W.	129
Fatou, M.	81	Murray, A.	13	Zajac, S.	102
Felix, R.	126	Nelson, B.	109	Zanni, K.	59
Finlay, S.	86	Neuenfeld, A.	126	Zhang, Q.	116
Fish, C.	113	Ngare, S.	126		
Foley, S.	56	Nichols, 4.	64		